Index of Claims

| Application No.         | Applicant(s)    |  |
|-------------------------|-----------------|--|
| 09/890,339              | JUNGBLUT ET AL. |  |
| Examiner                | Art Unit        |  |
| Rodney P. Swartz, Ph.D. | 1645            |  |

| √ | Rejected |
|---|----------|
| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

|           |          |          |              |         |               |                                                  |              |                                                  |                                                  |                    |    |          |          |                                                  |          |          |         |          | · · · · · · · · · · · · · · · · · · · |          |          |          |          |            |              |          |          |          |          |                 |          |          |   |
|-----------|----------|----------|--------------|---------|---------------|--------------------------------------------------|--------------|--------------------------------------------------|--------------------------------------------------|--------------------|----|----------|----------|--------------------------------------------------|----------|----------|---------|----------|---------------------------------------|----------|----------|----------|----------|------------|--------------|----------|----------|----------|----------|-----------------|----------|----------|---|
| Cla       | aim      | Date     |              |         |               |                                                  |              |                                                  | Claim Date                                       |                    |    |          |          |                                                  |          |          |         |          | 7                                     | laim     | Date     |          |          |            |              |          |          |          |          |                 |          |          |   |
| Final     | Original | 3/24/04  | 7/13/04      | 2/22/05 | 10/5/05       |                                                  |              |                                                  |                                                  |                    |    | Final    | Original | 3/24/04                                          | 7/13/04  | 2/22/05  | 10/5/05 |          |                                       |          |          |          | Final    | Original   |              |          |          |          |          |                 |          |          |   |
|           | 1        | _        |              | -       | <u> </u>      | t                                                | T            | T                                                | $\vdash$                                         | $\vdash$           | 1  |          | 51       | +                                                | V        | 1        | 1       |          |                                       |          | Н        | $\dashv$ | $\vdash$ | 101        | ╁╌           | ╁        |          | $\vdash$ | $\vdash$ | $\vdash$        | $\dashv$ | $\dashv$ | _ |
|           | 1        |          |              |         | Г             |                                                  | T            | 厂                                                | T                                                | T                  | 1  |          | 52       | +                                                | 1        | 1        | 1       |          |                                       |          |          |          | <b>—</b> | 102        | T            | T        | -        |          |          |                 | T        | $\dashv$ | _ |
|           | 3        |          |              |         |               |                                                  | T            |                                                  |                                                  |                    | 1  |          | 53       | +                                                | 1        | 1        | 1       |          |                                       |          |          | $\Box$   |          | 103        |              | Ħ        |          |          |          |                 | コ        | $\dashv$ | _ |
|           | 4        |          |              |         |               |                                                  |              |                                                  |                                                  | Г                  | 1  |          | 54       | +                                                | 1        | 7        | 7       |          |                                       |          |          | П        |          | 104        |              |          |          |          |          | П               | コ        | $\neg$   | _ |
|           | 5        |          |              |         |               |                                                  | Ŀ            |                                                  |                                                  |                    |    |          | 55       | +                                                | 1        | 7        | 7       |          |                                       |          |          |          |          | 105        |              |          |          |          |          |                 |          |          |   |
| <u></u>   | 6        |          | <u> </u>     |         | <u> </u>      | L                                                |              |                                                  | 匚                                                |                    | ]  |          | 56       | +                                                | 1        | 7        | 1       |          |                                       |          |          |          |          | 106        |              |          |          |          |          |                 |          |          |   |
| <u> </u>  | 1        | Ш        | L_           | Ш       |               |                                                  | L            | <u> </u>                                         |                                                  | <u> </u>           | ]  |          | 57       | +                                                | 1        | 1        | 1       |          |                                       |          |          |          |          | 107        |              |          |          |          |          |                 |          | $\Box$   |   |
| <u> </u>  | 8        |          | _            |         | _             | <u> </u>                                         | <u> </u>     | _                                                | _                                                | <u>L</u>           |    |          | 58       | _                                                | 1        | 7        | 1       | <u> </u> |                                       |          |          | _        | _        | 108        |              | L        | ļ        |          |          | Щ               | _        |          |   |
| <u> </u>  | 9        | <u> </u> | ļ            |         | L_            | ┡                                                | <u> </u>     | <u> </u>                                         | _                                                | <u> </u>           | Į  |          | 59       | _                                                | 1        | 1        | 1       | L        | _                                     | _        |          | _        | <u> </u> | 109        |              | <u> </u> | L        | _        | _        |                 | _        | 4        |   |
|           | 10       | _        | <u> </u>     | -       | _             | ⊢                                                | ⊢            | ₩                                                | <u> </u>                                         | ├-                 | ł  | <u> </u> | 60       | <u> </u>                                         | 1        | 1        | 1       | _        | $\dashv$                              |          |          | _        | $\perp$  | 110        | ↓_           | ┡        | L        |          | _        | Ш               | $\dashv$ | $\dashv$ |   |
| -         | 11       | $\vdash$ |              | H       | -             | $\vdash$                                         | ⊢            | -                                                | $\vdash$                                         | ⊢                  | ł  | <b></b>  | 61<br>62 | <b> </b>                                         | 1        | 7        | 1       | ┝        | $\dashv$                              | _        | $\vdash$ |          | -        | 111        | <del>-</del> | <u> </u> | <u> </u> |          |          | $\vdash$        | $\dashv$ | $\dashv$ | _ |
|           | 18       | -        | $\vdash$     | _       | $\vdash$      | ├                                                | ├            | ╁                                                | ⊢                                                | ┢                  | ł  |          | 63       | ├                                                | <u> </u> | 7        | 1       | ⊢        |                                       |          |          | $\dashv$ | _        | 112<br>113 |              | ┢        | <u> </u> | _        | -        | H               | $\dashv$ | $\dashv$ |   |
| _         | 14       | $\vdash$ | <del> </del> | H       | -             | $\vdash$                                         | $\vdash$     | $\vdash$                                         | $\vdash$                                         | -                  | ł  | -        | 64       | $\vdash$                                         | $\vdash$ | 7        | 7       | $\vdash$ | $\dashv$                              | -        | $\vdash$ | $\dashv$ | -        | 114        | +            | -        | ├─       | $\vdash$ | $\vdash$ | $\vdash$        |          | -+       | _ |
| $\vdash$  | 15       | $\vdash$ | H            | H       |               | $\vdash$                                         | $\vdash$     | 1-                                               | $\vdash$                                         | $\vdash$           | ľ  |          | 65       | -                                                | $\vdash$ | 7        | 1       | $\vdash$ |                                       | -        | $\vdash$ | $\dashv$ | $\vdash$ | 115        | +            | $\vdash$ | $\vdash$ | ⊢        | $\vdash$ | $\vdash \vdash$ | $\dashv$ | $\dashv$ |   |
| <b></b>   | 16       |          | -            | -       |               | $\vdash$                                         |              | 1                                                | <del>                                     </del> | ┢                  | 1  |          | 66       | $\vdash$                                         | ┝        | 7        | 1       | $\vdash$ | -                                     | $\dashv$ | $\dashv$ | $\dashv$ | -        | 116        |              | ╁        | -        |          | -        | H               | $\dashv$ | $\dashv$ | - |
|           | 17       | $\vdash$ |              |         | _             | _                                                | -            | $\vdash$                                         | -                                                | ╁                  | 1  | $\vdash$ | 67       | -                                                | $\vdash$ | Ì        | Ť       |          | $\dashv$                              |          |          | $\dashv$ | -        | 117        | +            | -        | _        | -        | -        | $\vdash$        | $\dashv$ | $\dashv$ | _ |
|           | 18       |          |              |         |               | $\vdash$                                         | $\vdash$     | <del>                                     </del> |                                                  | $\vdash$           | i  |          | 68       | <del>                                     </del> |          | Ż        | Ì       |          |                                       | $\neg$   | $\dashv$ |          | -        | 118        | ╁            | $\vdash$ | 一        | $\vdash$ | -        |                 | $\dashv$ | $\dashv$ | _ |
|           | 19       |          |              |         |               |                                                  | $\vdash$     | T                                                | _                                                |                    | -  |          | 69       | -                                                | -        | Ė        | Ť       |          |                                       | _        |          | _        | -        | 119        |              | ╁        | $\vdash$ | -        | _        |                 | $\dashv$ | $\dashv$ |   |
|           | 20       |          |              |         |               | $\vdash$                                         | <b>†</b>     |                                                  |                                                  |                    | 1  |          | 70       | $\vdash$                                         | _        | _        |         |          | $\neg$                                |          |          | $\dashv$ | -        | 120        |              | <u> </u> |          |          | $\vdash$ | Н               | $\dashv$ | $\dashv$ |   |
|           | 21       |          |              |         | $\overline{}$ | T                                                |              | Г                                                |                                                  |                    | ĺ  |          | 71       |                                                  |          |          |         |          | ヿ                                     |          | $\Box$   |          |          | 121        | T            | t        |          |          |          | Н               | ᅥ        | $\dashv$ | _ |
|           | 22       |          |              |         |               | П                                                | П            | Ī                                                | Г                                                |                    |    |          | 72       |                                                  |          |          |         |          | ヿ                                     | $\neg$   |          | $\neg$   |          | 122        | T            | <u> </u> |          | _        |          | П               | ヿ        | ヿ        | _ |
|           | 2B       |          |              |         |               |                                                  |              |                                                  |                                                  |                    |    |          | 73       |                                                  |          |          |         |          | $\neg$                                |          |          |          |          | 123        |              | T        |          |          |          | П               | ヿ        | ヿ        |   |
|           | 24<br>25 |          |              |         |               |                                                  |              |                                                  |                                                  |                    |    |          | 74       |                                                  |          |          |         |          |                                       |          |          |          |          | 124        |              |          |          |          |          |                 | П        | コ        |   |
|           | 25       |          |              |         |               |                                                  |              | $oxedsymbol{oxed}$                               | L                                                |                    |    |          | 75       |                                                  |          |          |         |          |                                       |          |          |          |          | 125        |              |          |          |          | ·        |                 |          | $\Box$   |   |
|           | 26       | Ш        |              |         |               | ļ                                                |              | _                                                | _                                                |                    |    |          | 76       |                                                  |          |          |         |          |                                       |          | $\perp$  |          |          | 126        |              |          |          |          |          |                 |          |          |   |
|           | 27       | +        | Ν            | N       | N             | L_                                               | _            |                                                  | _                                                | L                  |    |          | 77       |                                                  |          |          |         |          | _                                     |          | Ц        | _        |          | 127        | <u> </u>     |          |          |          | •        |                 |          | _        |   |
|           | 28       | +        | N            | N       | N             | <u> </u>                                         | <u> </u>     | ļ                                                |                                                  | _                  | Į  |          | 78       | _                                                |          |          |         |          | _                                     |          |          | _        |          | 128        | <u> </u>     | <u> </u> | L.       |          |          | Щ               |          | _        |   |
| <u> </u>  | 29       | +        | N            | N       | N             | <u> </u>                                         | <u> </u>     | ⊢                                                | Ļ                                                | <u> </u>           |    |          | 79       | <u> </u>                                         | Ш        |          | _       | _        | _                                     | _        | $\Box$   | _        | <u> </u> | 129        | ↓_           | <u> </u> | $\perp$  |          |          |                 |          | _        |   |
| _         | 30       | •        | N            | N       | N             |                                                  | ⊢            |                                                  | -                                                |                    |    | <u> </u> | 80       | <u> </u>                                         |          |          |         | Ш        | _                                     |          | _        |          |          | 130        | ╄            | L        | _        |          |          | _               | _        | $\dashv$ | _ |
| $\vdash$  | 31<br>32 | +        | Z            | N       | N             | -                                                |              | <del> </del>                                     |                                                  | -                  | ĺ  | -        | 81<br>82 | H                                                | -        | $\vdash$ |         |          | $\dashv$                              |          | -        | _        |          | 131        | ┼            | -        |          |          |          |                 | -        | $\dashv$ |   |
| $\vdash$  | 33       | +        | N            | N       | N             | -                                                |              | ⊢                                                |                                                  | $\vdash$           |    | -        | 83       | ├                                                | $\vdash$ |          |         |          |                                       |          |          | _        | _        | 132<br>133 | ┼            | -        | H        | _        | _        | $\vdash$        | $\dashv$ | $\dashv$ |   |
| $\vdash$  | 34       | +        | N            | N       | N             | -                                                | ├            | ┢                                                | $\vdash$                                         | $\vdash$           |    | <u> </u> | 84       | $\vdash$                                         | $\vdash$ |          | _       |          | -                                     | $\dashv$ | $\dashv$ | $\dashv$ | -        | 134        | ╁┈           |          | $\vdash$ |          | -        | $\dashv$        | $\dashv$ | $\dashv$ | _ |
| $\vdash$  | 35       | +        | N            | N       | N             | -                                                | -            | ┢                                                | ┝                                                | -                  |    |          | 85       |                                                  | $\vdash$ | -        |         | $\vdash$ | _                                     |          | -        | -        | -        | 135        | +            | -        | H        | _        | -        | $\dashv$        | $\dashv$ | $\dashv$ |   |
|           | 36       | +        | N            | N       | N             | Н                                                | -            | $\vdash$                                         | _                                                | _                  |    |          | 86       | -                                                | Н        |          |         | Н        |                                       |          | _        | $\dashv$ | $\vdash$ | 136        | ╁╌           |          | Н        | Н        |          | $\dashv$        | $\dashv$ | $\dashv$ | _ |
|           | 37       | +        | N            | N       | N             | <del>                                     </del> | <del> </del> | $\vdash$                                         | -                                                |                    | 1  |          | 87       |                                                  |          |          |         |          |                                       |          | _        | -        | $\vdash$ | 137        | ${\dagger}$  | _        | Н        |          | Н        |                 | 一        | $\dashv$ |   |
|           | 38       | +        | N            | N       | N             |                                                  | $\vdash$     |                                                  |                                                  |                    |    |          | 88       |                                                  | П        |          | _       | Н        | _                                     | _        | 7        | _        |          | 138        | <b>†</b>     |          |          |          | .        | $\dashv$        | $\dashv$ | $\dashv$ |   |
|           | 39       | +        | N            | N       | N             |                                                  |              |                                                  |                                                  |                    | 1  |          | 89       |                                                  |          |          | _       |          |                                       | $\neg$   | _        |          |          | 139        | 1            |          |          |          |          |                 | ヿ        | 十        | _ |
|           | 40       | +        | N            | N       | N             | Г                                                |              |                                                  |                                                  |                    | į. |          | 90       | Г                                                |          |          |         |          |                                       |          |          |          |          | 140        | T            |          | П        |          |          | $\Box$          | ヿ        | 寸        | _ |
|           | 41       | +        | Ν            | N       | Ν             |                                                  |              |                                                  |                                                  |                    | l  |          | 91       |                                                  |          |          |         |          |                                       |          |          |          |          | 141        |              |          |          |          |          |                 |          | $\neg$   | _ |
|           | 42       | +        | 2            | N       | N             |                                                  |              |                                                  |                                                  |                    | ]  |          | 92       |                                                  |          |          |         |          |                                       |          |          |          |          | 142        |              |          |          |          |          |                 | T        | $\neg$   | Т |
|           | 43       | +        | Z            |         | N             |                                                  |              |                                                  |                                                  |                    |    |          | 93       |                                                  |          |          |         |          |                                       |          |          |          |          | 143        |              |          |          |          |          |                 |          |          |   |
|           | 44       | +        | 1            | 1       | 1             | oxdot                                            | _            | L                                                |                                                  | $oxedsymbol{oxed}$ |    |          | 94       |                                                  |          |          |         |          |                                       | $\Box$   |          |          |          | 144        |              |          |          |          |          |                 |          | $\Box$   |   |
|           | 45       | +        | 1            | 1       | 1             | $\Box$                                           |              | <u> </u>                                         | _                                                |                    |    |          | 95       |                                                  |          |          |         |          |                                       | $\Box$   |          |          |          | 145        |              |          |          |          |          |                 |          |          |   |
| $\square$ | 46<br>47 | +        | _            | _       |               |                                                  | <u> </u>     | Щ                                                | <u> </u>                                         | L.,                |    |          | 96       | Ш                                                |          |          |         |          |                                       | _        | [        | .        | _        | 146        | $\perp$      |          | Ш        |          |          |                 | [        | _[       | _ |
| <b>  </b> |          | +        | <b>-</b>     | -       | _             | <u> </u>                                         | _            |                                                  | <u> </u>                                         | ļ,                 |    | L        | 97       | oxdot                                            |          | _        |         |          | _                                     | ļ        | _        | _        |          | 147        |              | <u> </u> |          |          |          | Ш               |          | $\dashv$ |   |
|           | 48       | +        | 1            | 1       | 1             |                                                  | <u> </u>     |                                                  | L.                                               | Ш                  |    | <u> </u> | 98       | <u> </u>                                         |          |          | _       | Щ        | _                                     |          | _        |          |          | 148        |              | $\vdash$ |          |          |          | Ш               | _        | $\dashv$ | _ |
| $\vdash$  | 49       | +        | 1            | 1       | 1             | $\vdash$                                         | <u> </u>     | <u> </u>                                         | _                                                | Ш                  |    | <u> </u> | 99       | $\vdash$                                         | $\Box$   | _        |         |          | _                                     | 4        | _        | $\dashv$ | -        | 149        | ـــ          |          | <u> </u> |          |          | $\sqcup$        | _        | $\dashv$ | _ |
| $\Box$    | 50       | +        | 1            | 1       | 1             | 1                                                |              | ı                                                |                                                  |                    |    | 1 1      | 100      |                                                  |          | - 1      |         |          | - 1                                   | - 1      | - 1      |          | 1        | 150        | 1            | 1        |          |          |          |                 | - 1      | - 1      |   |